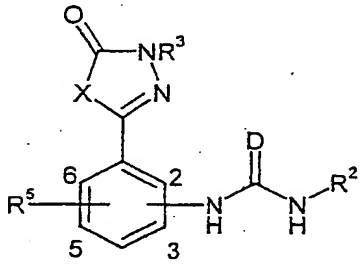
Claims

1. A compound of the formula

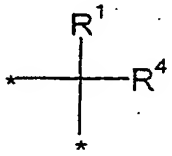


(I)

in which

the radical $-NHC(D)NHR^2$ is bonded to the aromatic system at one of positions 2, 3, 5 or 6,

X is $-N(R^6)-$ or a group



D is oxygen or sulfur,

R^1 is C_6-C_{10}-aryl or C_1-C_6-alkyl, where alkyl may optionally be substituted by up to three substituents independently of one another selected from the group consisting of hydroxy, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, C_1-C_6-alkylcarbonylamino, hydroxycarbonyl, C_1-C_6-alkoxycarbonyl and C_1-C_6-alkylaminocarbonyl,

and

where aryl may optionally be substituted by up to three substituents independently of one another selected from the group consisting of halogen, hydroxy, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, C_1-C_6-alkylcarbonylamino, hydroxycarbonyl, C_1-C_6-alkoxycarbonyl, C_1-C_6-alkylaminocarbonyl and C_1-C_6-alkyl,

or

R^1 and R^4 form together with the carbon atom to which they are bonded a C_3-C_6-cycloalkyl ring, where the cycloalkyl ring may optionally be substituted by up to three substituents independently of one another selected from the group consisting of halogen, hydroxy, C_1-C_6-alkyl, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, C_1-C_6-alkylcarbonylamino, hydroxycarbonyl, C_1-C_6-alkoxycarbonyl and C_1-C_6-alkylaminocarbonyl,

R^2 is C_3-C_8-cycloalkyl or C_6-C_{10}-aryl, where aryl may optionally be substituted by up to three substituents independently of one another selected from the group consisting of halogen, hydroxy, nitro, cyano, C_1-C_6-alkoxy, hydroxycarbonyl, C_1-C_6-alkoxycarbonyl, amino, C_1-C_6-alkylamino, C_1-C_6-alkylaminocarbonyl and C_1-C_6-alkyl,

R^3 is hydrogen or C_1-C_6-alkyl, where alkyl may optionally be substituted by up to two substituents independently of one another selected from the group consisting of C_1-C_6-alkoxy, hydroxycarbonyl and C_1-C_6-alkoxycarbonyl,

R^4 is C_1-C_6-alkyl, where alkyl may optionally be substituted by up to three substituents independently of one another selected from the group consisting of hydroxy, C_6-C_{10}-aryl, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, C_1-C_6-alkylcarbonylamino, hydroxycarbonyl, C_1-C_6-alkoxycarbonyl and C_1-C_6-alkylaminocarbonyl,

or

R^4 is C_6-C_{10}-aryl, where aryl may optionally be substituted by up to three substituents independently of one another selected from the group consisting of halogen, hydroxy, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, C_1-C_6-alkylcarbonylamino, hydroxycarbonyl, C_1-C_6-alkoxycarbonyl, C_1-C_6-alkylaminocarbonyl and C_1-C_6-alkyl,

R^5 is hydrogen, halogen, hydroxy, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino or C_1-C_6-alkyl,

R^6 is C_6-C_{10}-aryl, C_3-C_8-cycloalkyl or C_1-C_6-alkyl, where alkyl may optionally be substituted by up to two substituents independently of one another selected from the group consisting of hydroxy, C_6-C_{10}-aryl, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, hydroxycarbonyl and C_1-C_6-alkoxycarbonyl,

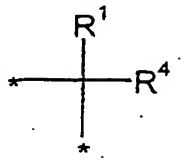
and

where cycloalkyl may optionally be substituted by up to three substituents independently of one another selected from the group consisting of hydroxy, C_1-C_6-alkyl, C_6-C_{10}-aryl, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, hydroxycarbonyl and C_1-C_6-alkoxycarbonyl.

2. A compound as claimed in claim 1, where

the radical $-NHC(D)NHR^2$ is bonded to the aromatic system at one of positions 2, 3, 5 or 6,

X is $-N(R^6)-$ or a group



D is oxygen,

R^1 is C_1-C_6-alkyl, where alkyl may optionally be substituted by up to three substituents independently of one another selected from the group consisting of hydroxy, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, C_1-C_6-alkylcarbonylamino, hydroxycarbonyl, C_1-C_6-alkoxycarbonyl and C_1-C_6-alkylaminocarbonyl,

or

R^1 and R^4 form together with the carbon atom to which they are bonded a C_5-C_6-cycloalkyl ring, where the cycloalkyl ring may optionally be substituted by up to three substituents independently of one another selected from the group consisting of halogen, hydroxy, C_1-C_6-alkyl, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, C_1-C_6-alkylcarbonylamino, hydroxycarbonyl, C_1-C_6-alkoxycarbonyl and C_1-C_6-alkylaminocarbonyl,

R^2 is C_6-C_{10}-aryl, where aryl may optionally be substituted by up to three substituents independently of one another selected from the group consisting of halogen or C_1-C_6-alkyl,

R^3 is hydrogen or C_1-C_6-alkyl, where alkyl may optionally be substituted by up to two substituents independently of one another selected from the group consisting of C_1-C_6-alkoxy, hydroxycarbonyl and C_1-C_6-alkoxycarbonyl,

R^4 is C_1-C_6-alkyl, where alkyl may optionally be substituted by up to three substituents independently of one another selected from the group consisting of hydroxy, phenyl, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, C_1-C_6-alkylcarbonylamino, hydroxycarbonyl, C_1-C_6-alkoxycarbonyl and C_1-C_6-alkylaminocarbonyl,

R^5 is hydrogen, halogen, hydroxy, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino or C_1-C_6-alkyl,

R^6 is C_3-C_8-cycloalkyl or C_1-C_6-alkyl, where alkyl may optionally be substituted by up to two substituents independently of one another selected from the group consisting of hydroxy, C_6-C_{10}-aryl, C_1-C_6-alkoxy, amino, C_1-C_6-alkylamino, hydroxycarbonyl and C_1-C_6-alkoxycarbonyl,

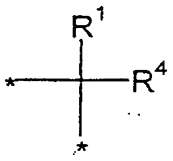
and

where cycloalkyl may optionally be substituted by up to three substituents independently of one another selected from the group consisting of C_1-C_6-alkyl and C_1-C_6-alkoxy.

3. A compound as claimed in claim 1, where

the radical -NHC(D)NHR^2 is bonded to the aromatic system at position 3,

X is –N(R^6)- or a group



D is oxygen,

R^1 is C_1-C_6-alkyl,

or

R^1 and R^4 form together with the carbon atom to which they are bonded a C_5-C_6-cycloalkyl ring,

R^2 is C_6-C_{10}-aryl, where aryl may optionally be substituted by up to two substituents independently of one another selected from the group consisting of fluorine, chlorine or C_1-C_6-alkyl,

R^3 is hydrogen,

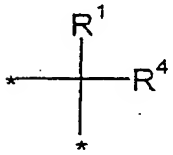
R^4 is C_1-C_6-alkyl,

R^5 is hydrogen or fluorine,

R^6 is C_5-C_7-cycloalkyl or C_1-C_6-alkyl, where alkyl may optionally be substituted by up to two substituents phenyl.

4. A compound as claimed in claim 1, 2 or 3, where the radical $-NHC(D)NHR^2$ is bonded to the aromatic system at position 3.

5. A compound as claimed in claim 1, 2 or 3, where X is a group



6. A compound as claimed in claim 1, 2 or 3, where X is $-N(R^6)-$.

7. A compound as claimed in claim 1, 2 or 3, where D is oxygen.

8. A compound as claimed in claim 1, 2 or 3, where R^1 is methyl.

9. A compound as claimed in claim 1, 2 or 3, where R^2 is phenyl, where phenyl may optionally be substituted by up to two substituents independently of one another selected from the group consisting of fluorine, chlorine or methyl.

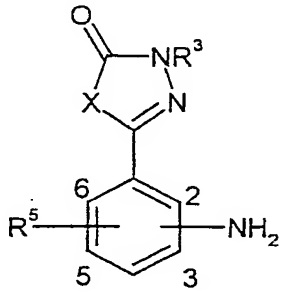
10. A compound as claimed in claim 1, 2 or 3, where R^3 is hydrogen.

11. A compound as claimed in claim 1, 2 or 3, where R^4 is methyl.

12. A compound as claimed in claim 1, 2 or 3, where R^5 is hydrogen.

13. A compound as claimed in claim 1, 2 or 3, where R^6 is isopropyl, cyclohexyl or 1-phenylethyl.

14. A process for preparing compounds as claimed in claim 1, characterized in that compounds of the formula (II)



(II),

in which

NH_2 is bonded to the aromatic system at one of positions 2, 3, 5 or 6; and

X, R^3 and R^5 have the meaning indicated above,

are reacted with compounds of the formula (III)

$$DCN\text{-}R^2 \qquad (III)$$

in which R^2 and D have the meaning indicated above.

15. A compound as claimed in any of claims 1 to 3 for the treatment and/or prophylaxis of viral diseases.

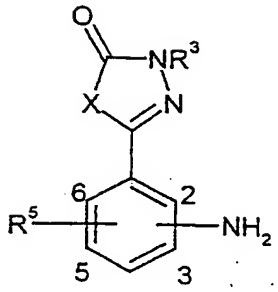
16. A medicament comprising at least one compound as claimed in any of claims 1 to 3 in combination with at least one pharmaceutically acceptable, pharmaceutically suitable carrier or excipient.

17. The use of compounds as claimed in any of claims 1 to 3 for producing a medicament for the treatment and/or prophylaxis of viral diseases.

18. A medicament as claimed in claim 16 for the treatment and/or prophylaxis of viral diseases.

19. A method for controlling viral diseases in humans and animals by administering an antivirally effective amount of at least one compound as claimed in any of claims 1 to 3.

20. A compound of the formula (II)



(II),

in which

NH_2 is bonded to the aromatic system at one of positions 2, 3, 5 or 6, and

X, R^3 and R^5 have the meaning indicated in claim 1.